

Claims

- [c1] 1. A telescope for observing and/or recording an image, comprising:
a first monocular, having a first object lens and a first eyepiece;
a second monocular, having a second object lens and a second eyepiece;
an image-recording device, disposed between the first monocular and the second monocular; and
a first optical-switching component, disposed between the first object lens and the first eyepiece for deflecting an incident light beam from the first object lens to the first eyepiece or the image-recording device.
- [c2] 2. The telescope of claim 1, wherein the first object lens comprises a lens group.
- [c3] 3. The telescope of claim 1, wherein the first eyepiece comprises a lens group.
- [c4] 4. The telescope of claim 1, wherein the second object lens comprises a lens group.
- [c5] 5. The telescope of claim 1, wherein the second eyepiece comprises a lens group.

- [c6] 6. The telescope of claim 1, wherein the first monocular further comprises a first prism disposed between the first object lens and the first eyepiece.
- [c7] 7. The telescope of claim 1, wherein the second monocular further comprises a second prism disposed between the second object lens and the second eyepiece.
- [c8] 8. The telescope of claim 1, wherein the image-recording device further comprises:
an image-capturing device; and
a lens assembly, wherein the lens assembly and the image-capturing device are disposed along the optical path behind the first optical-switching component and the lens assembly is disposed between the first optical-switching component and the image-capturing device.
- [c9] 9. The telescope of claim 8, wherein the image-capturing device comprises a charge-coupled device or a complementary metal-oxide-semiconductor image sensor.
- [c10] 10. The telescope of claim 8, wherein the image-recording device further comprises a reflector disposed along the optical path between the first optical-switching component and the image-capturing device.

- [c11] 11. The telescope of claim 1, wherein the first optical-switching component comprises a rotatable reflector.
- [c12] 12. The telescope of claim 1, wherein the first optical-switching component comprises:
a rotate mechanism; and
a reflector disposed on the rotate mechanism.
- [c13] 13. The telescope of claim 1, wherein the first optical-switching component comprises a dichroic mirror or a polarizing beam splitter.
- [c14] 14. The telescope of claim 1, wherein the telescope further comprises a second optical-switching component disposed between the second object lens and the second eyepiece for deflecting an incident light beam from the second object lens to the second eyepiece or the image-recording device.
- [c15] 15. The telescope of claim 14, wherein the second optical-switching component comprises a rotatable reflector.
- [c16] 16. The telescope of claim 14, wherein the second optical-switching component further comprises:
a rotate mechanism; and
a reflector disposed on the rotate mechanism.
- [c17] 17. The telescope of claim 14, wherein the second opti-

cal-switching component comprises a dichroic mirror or a polarizing beam splitter.

- [c18] 18. A telescope for observing and/or recording an image, comprising:
a monocular, having an object lens and an eyepiece;
an image-recording device, connected to the monocular;
and
an optical-switching component, disposed between the object lens and the eyepiece for deflecting an incident light beam from the object lens to the eyepiece or the image-recording device.
- [c19] 19. The telescope of claim 18, wherein the object lens comprises a lens group.
- [c20] 20. The telescope of claim 18, wherein the eyepiece comprises a lens group.
- [c21] 21. The telescope of claim 18, wherein the monocular further comprises a prism disposed between the object lens and the eyepiece.
- [c22] 22. The telescope of claim 18, wherein the image-recording device further comprises:
an image-capturing device; and
a lens assembly, wherein the lens assembly and the image-capturing device are disposed along the optical path

behind the optical-switching component and the lens assembly is disposed between the optical-switching component and the image-capturing device.

[c23] 23. The telescope of claim 22, wherein the image-capturing device comprises a charge-coupled device or a complementary metal-oxide-semiconductor image sensor.

[c24] 24. The telescope of claim 22, wherein the image-recording device further comprises a reflector disposed along the optical path between the optical-switching component and the image-capturing device.

[c25] 25. The telescope of claim 18, wherein the optical-switching component further comprises a rotatable reflector.

[c26] 26. The telescope of claim 18, wherein the optical-switching component further comprises:
a rotate mechanism; and
a reflector disposed on the rotate mechanism.

[c27] 27. The telescope of claim 18, wherein the optical-switching component further comprises a dichroic mirror or a polarizing beam splitter.